

Chapter 17 The History of Life**Section Review 17-4****Reviewing Key Concepts**

Completion *On the lines provided, complete the following sentences.*

1. Mass extinctions, adaptive radiation, coevolution, punctuated equilibrium, and changes in developmental genes are examples of patterns of _____.
2. Huge numbers of species disappear rapidly during a(an) _____.
3. During _____, one or more species evolve into several different forms that live in different ways.
4. The pattern of macroevolution in which two species evolve in response to changes in each other over time is called _____.
5. A pattern of long stable periods interrupted by brief periods of more rapid evolutionary change is described by the term _____.
6. Changes in master control genes called _____ may be the basis for major evolutionary changes affecting the number of an organism's limbs or body segments.

Reviewing Key Skills

7. **Inferring** What evolutionary change allowed for the great adaptive radiation of mammals?

8. **Applying Concepts** How might a plant species and a pollinating insect species evolve in response to changes in each other?

9. **Comparing and Contrasting** How are gradualism and punctuated equilibrium alike? How are they different?

10. **Applying Concepts** What genetic factors might be responsible for a change in an organism's body plan?

